

Title (en)

METHOD AND APPARATUS FOR SEPARATING HYDROCARBON

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ABTRENNUNG VON KOHLENWASSERSTOFFEN

Title (fr)

PROCEDE ET APPAREIL DE SEPARATION D'HYDROCARBURES

Publication

**EP 1695951 A1 20060830 (EN)**

Application

**EP 04746570 A 20040628**

Priority

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Abstract (en)

There are provided a process for separation of hydrocarbons including the steps of: (a) a feed gas is cooled and partly condensed, and separated into a gas and a liquid; (b) the liquid obtained in step (a) is supplied to a distillation column; (c) the gas obtained in step (a) is expanded by an expander and partly condensed, and separated into a gas and a liquid; (d) the liquid obtained in step (c) is supplied to the distillation column; (e) the gas obtained in step (c) is divided into a first portion and a second portion; (f) the first portion is supplied to the distillation column; (g) the second portion is condensed by being compressed and cooled, and then depressurized and supplied as a reflux to the distillation column; and (h) a residue gas is obtained from the top part of the distillation column and a heavier fraction is obtained from the bottom part of the distillation column; and an apparatus therefor. The process and apparatus enable efficient separation of hydrocarbons.

IPC 8 full level

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**US 2005155382 A1 20050721**; **US 7357003 B2 20080415**; EP 1695951 A1 20060830; EP 1695951 A4 20120229; EP 1695951 B1 20140827; JP 4452239 B2 20100421; JP WO2005009930 A1 20070927; WO 2005009930 A1 20050203

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